



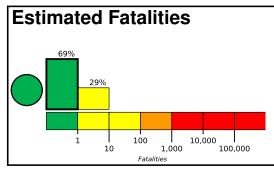


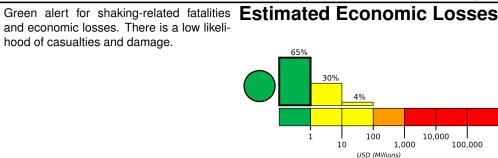
PAGER Version 4

Created: 6 hours, 1 minute after earthquake

M 4.1, 9km SW of Petrolia, CA

Origin Time: 2019-12-19 15:30:12 UTC (Thu 07:30:12 local) Location: 40.2758° N 124.3633° W Depth: 21.4 km





Estimated Population Exposed to Earthquake Shaking

			•							
ESTIMATED POPULATION EXPOSURE (k=x1000)		76k	73k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0 5 50 100 500 1000 5000 10000 124.8 °W | Westhaven-Moonstone | McKinleyville | Fortuna | Fortu

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/nc73316566#pager

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	299	6.0	VI(47k)	1
1980-11-08	92	7.3	IX(16k)	0
1980-01-24	364	5.8	VII(35k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides and lique-faction that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City Population Ferndale 1k Ш **Fortuna** 12k Ш Rio Dell 3k Ш Hydesville 1k Ш Redway 1k Ш **Eureka** 27k Ш Humboldt Hill 3k Ш Myrtletown 5k Arcata 17k Bayside 17k McKinleyville 15k

bold cities appear on map.

(k = x1000)

Event ID: nc73316566